## REMARKS

Claims 1-22 remain pending. Claims 1, 11, 19, 20, and 21 have been amended to clarify claimed subject matter and/or correct informalities. The specification and drawings support these claim amendments at least at pages 7, 8, 11, 16, in Figures 3, and 10. No new matter has been introduced by these amendments.

Claims 1-22 are for consideration upon entry of the present Amendment. Applicant requests favorable consideration of this response and allowance of the subject application based on the following remarks.

### *Statement of Substance of Interview*

Applicant appreciates the Examiner's telephonic conference of May 1, 2007. Applicant wishes to thank the Examiner for informing Applicant that a response to the Office Action has not been sent to the Office within the six month statutory period.

During the interview, Applicant informed the Office that only the IDS had been filed without submitting the response, which was unintentional. Thus, Applicant submits the Response to the Office Action along with a petition to revive the application.

### *Claim Rejections 35 U.S.C. §102*

Claims 1-22 are rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 7,069,549 to Charnell et al. (hereinafter "Charnell"). Applicant respectfully traverses this rejection. Anticipation under §102 requires that each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference (MPEP §2131).

Without conceding the propriety of the stated rejections, and only to advance the prosecution of this application, Applicant has amended **independent Claim 1**, to clarify further features of the subject matter. Claim 1 now recites:

> A method for revising code, comprising:
> providing a~~first code module containing a resource, wherein the resource includes forwarding instructions;
> generating intermediate code and metadata that reference the resource;
> producing a second code module;
> transferring the resource from the first code module to a~~ the second code module;
> providing forwarding information in a new version of the first code module that points to the second code module; ~~and~~
> accessing the resource in the second code module via the forwarding information in the first code module;
> generating intermediate code and metadata having forwarding information, wherein metadata specifies a proper linking between the first code module and the second code module and between objects within the individual code modules; and
> executing metadata at runtime.

Charnell Fails to Disclose Intermediate code and Metadata

Charnell is directed to providing a link between two pieces of complied code in a self-modifying multi-threaded computer system (col. 3, lines 14-15). In particular, Charnell inserts a patch (col. 3, lines 16-17). The patching needs to be done atomically, as a single instruction, so that other threads cannot view the area being changed in a partially changed form (col. 7, line 67 to col. 8, line 3). Charnell describes how a patch is made from a code fragment to compiled code (col. 8, lines 32-33), which is _not_ generating intermediate code and metadata having forwarding information, wherein the metadata specifies a proper linking between the first code module and the second code module, as recited in amended Claim 1.

The evidence shows Charnell does not disclose expressly or inherently "generating intermediate code and metadata having forwarding information; wherein metadata specifies a

proper linking between the first code module and the second code module and between objects within the individual code modules; and executing metadata at runtime", as recited in Claim 1. Consequently, Applicant respectfully submits that Claim 1 is not anticipated by Charnell and requests that the §102 rejection be withdrawn.

**Independent Claims 11, 20 and 21** as amended, recite features similar to those in Claim 1 and hence benefits from the same arguments directed above to Claim 1.

**Dependent Claims 2-10 and 12-18** depend directly or indirectly from one of independent Claims 1 or 11, and thus are allowable as depending from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claims 1 and 11, are not disclosed by Charnell. Applicant respectfully request the rejections be withdrawn.

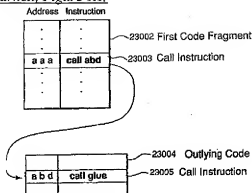Charnell Fails to Disclose Renaming Information

Applicant has amended **independent Claim 19**, to clarify further features of the subject matter and to advance the prosecution. Claim 19 recites:

A method for revising code, comprising:
providing a code module containing a resource;
providing renaming information in the code module that specifies a previous name of the resource, and a new name of the resource, wherein the renaming specifies a reference class type;
accessing the resource in the code module via the renaming information in the code module.

Charnell shows the code fragment has a call instruction at address aaa.

Applicant reproduces Figure 1A below:

*Charnell, Figure 1A:*

The evidence shows Charnell does not disclose expressly or inherently "providing renaming information in the code module that specifies a previous name of the resource, and a new name of the resource, wherein the renaming specifies a reference class type", as recited in Claim 19. Applicant asserts Charnell fails to anticipate independent Claim 19 because Charnell fails to disclose the recited features of the claimed subject matter. Accordingly, Applicant requests that the §102 rejections be withdrawn.

**Dependent Claims 4, 6, and 16** recite features similar to those in Claim 19 and hence benefit from the same arguments directed above to Claim 19. These claims are also allowable as depending from an allowable base claim along with their own recited features.

Charnell Fails to Disclose Automatically Tracing the Link

Turning to **independent Claim 22**, which recites:

An apparatus for generating code, comprising:
logic configured to:
receive intermediate language code and metadata generated by a language compiler, wherein the metadata expresses a link between an original name of a resource and a new name of the resource; and
process the intermediate language code and the metadata to generate processed code by automatically tracing the link.

Charnell fails to disclose expressly or inherently "the metadata expresses a link, and process the intermediate language code and the metadata to generate processed code by automatically tracing the link", as recited in independent Claim 22. In Charnell, the compiled code can be carried out atomically, so the other threads cannot view the area being changed (col. 3, lines 28-30). This is not similar in function as "automatically tracing the link", as recited in Claim 22. Applicant asserts Charnell fails to anticipate independent Claim 22 because Charnell fails to disclose the recited features of the claimed subject matter. Accordingly, Applicant requests that the §102 rejections be withdrawn.

### *Conclusion*

Claims 1-22 are in condition for allowance. Applicant respectfully requests reconsideration and prompt allowance of the subject application. If any issue remains unresolved that would prevent allowance of this case, the Office is requested to contact the undersigned attorney to resolve the issue.

Respectfully Submitted,

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